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APPLICATION N	O. F	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/836.892		04/17/2001	Charles Hopson	60,130-726	6550
26096	7590	07/25/2003			
	•	EY & OLDS, P.C.	EXAMINER		
400 WEST MAPLE ROAD SUITE 350 BIRMINGHAM, MI 48009				GONZALEZ, JULIO C	
				ART UNIT	PAPER NUMBER
				2834	
				DATE MAILED: 07/25/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		09/836,892	HOPSON ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Julio C. Gonzalez	2834				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status							
1)⊠	Responsive to communication(s) filed on <u>08 h</u>	<u>/lay 2003</u> .					
2a) <u></u> □	This action is FINAL . 2b)⊠ Thi	is action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims							
·	Claim(s) 1-7 is/are pending in the application.						
	4a) Of the above claim(s) 7 is/are withdrawn from consideration.						
1	Claim(s) is/are allowed.	•					
	6)⊠ Claim(s) <u>1-6</u> is/are rejected.						
	Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement. Application Papers							
9) The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on <u>17 April 2001</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) ☐ The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal P	(PTO-413) Paper No(s) Patent Application (PTO-152)				
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DETAILED ACTION

Drawings

- 1. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: motor armature 10. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.
- 2. The drawings are objected to because it is not clear as to which one is the rotor casing and the armature and the shaft from the drawings. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 1-6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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The claims disclose a rotor casing, but it is not clear from the specifications if the casing is part of the armature and also the location of the shaft is not clear.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art arc such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Graham et al in view of Umeki.

Graham et al discloses an armature for an electric motor having a cylindrical rotor casing 44, a plurality of spaced conducting bundles 18 and a circuit cap 50 electrically connecting the bundles 18 to each other (see figures 3, 6, 8, 7). Even though it is a matter of design choice and well known in the art, Graham et al does not disclose explicitly that the bundles may be wires.

On the other hand, Umeki discloses for the purpose of fastening efficiently armature coil to the shaft that wires 5a and 5b may be used/attached to the rotor part of an electrical machine (see abstract).

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It would have been obvious to one having ordinary skill in the art at the time the invention was made to design an electric motor armature as disclosed by Graham et al and to modify the invention by using wires in the rotor for the purpose of fastening efficiently armature coil to the shaft as disclosed by Umeki.

7. Claims 5 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Graham et al and Umeki as applied to claim 1-4 above, and further in view of Hsu et al.

The combined electric motor discloses all of the elements above. However, the combined electric motor does not disclose having conducting parts with end portions.

On the other hand, Hsu et al discloses for the purpose of improving contact between the end rings and bar ends, conducting bars 16 having an end portion (see figure 4) which is connected to a circuit cap 18, which has a corresponding connecting pin mate (see figures 8b, 9b).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to design the combined electric motor as disclosed above and to modify the invention by using corresponding pin mates for the rotor for the purpose of improving contact between the end rings and bar ends as disclosed by Hsu et al.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Julio C. Gonzalez whose telephone number is (703) 305-1563. The examiner can normally be reached on M-F (8AM-5PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on (703) 308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Jcg

July 23, 2003